Gould: Pathophysiology for the Health Professions, 4th Edition

Chapter 03: Immunity and Abnormal Responses

Test Bank

MULTIPLE CHOICE

- 1. Neutrophils:
 - a. are phagocytic cells
 - b. produce histamine
 - c. produce antibodies
 - d. are elevated during an allergic response

ANS: A

- 2. Which cells are required to process and present antigens from foreign material as the initial step in the immune response?
 - a. T-helper cells
 - b. macrophages
 - c. eosinophils
 - d. monocytes

ANS: B

- 3. Humoral immunity is mediated by:
 - a. natural killer cells
 - b. T-lymphocytes (T cells)
 - c. B-lymphocytes (B cells)
 - d. neutrophils

ANS: C

- 4. A patient experienced an episode of influenza 6 months ago. A recent exposure to a mutated form of the same virus would result in:
 - a. a primary immune response
 - b. a secondary immune response
 - c. passive natural immunity to the virus
 - d. avoidance of any flu infection

ANS: A

- 5. Which type of immunity is provided by a vaccination?
 - a. active natural
 - b. active artificial
 - c. passive natural
 - d. passive artificial

ANS: B

- 6. When an allergen binds with IgE antibodies on mast cells, resulting in release of chemical mediators, this reaction is called:
 - a. cytotoxic hypersensitivity
 - b. immune complex hypersensitivity
 - c. type I hypersensitivity
 - d. type IV hypersensitivity

ANS: C

- 7. The role of memory cells is to:
 - a. change into an antibody-secreting cell following activation
 - b. immediately secrete antibodies following the first exposure to antigen
 - c. recognize the antigen and stimulate the immune response
 - d. bind complement to the antibody

ANS: C

- 8. Which statement applies to contact dermatitis?
 - a. It occurs when IgE antibodies on the skin react with the causative substance.
 - b. It may result from ingested foods.
 - c. Urticaria (hives) gradually spread over the body.
 - d. A type IV reaction occurs in specific areas.

ANS: D

- 9. Which of the following causes anaphylaxis?
 - a. a severe, systemic allergic reaction
 - b. type III hypersensitivity
 - c. cell-mediated hypersensitivity
 - d. immune complex deposits in many tissues

ANS: A

- 10. Why is anaphylaxis considered a critical situation?
 - a. The heart rate is irregular.
 - b. Carbon dioxide levels in the body are greatly increased.
 - c. Bronchoconstriction and systemic vasodilation develop rapidly.
 - d. Manifestations are not obvious in the initial stages.

ANS: C

- 11. Incompatible blood transfusions result in:
 - a. hemolysis of erythrocytes
 - b. a type I immune response
 - c. deposits in multiple organs
 - d. immune deficiency

ANS: A

- 12. An autoimmune disease is:
 - a. excessive formation of antibodies following exposure to foreign material
 - b. an extreme response to normally harmless material in the environment
 - c. an abnormal response to ingested food and drugs
 - d. failure of the immune system to distinguish self from nonself

ANS: D

- 13. Systemic lupus erythematosus is caused by:
 - a. a chronic allergic condition
 - b. development of an immune-deficient state
 - c. a deficiency of T-lymphocytes
 - d. immune complex deposits of antinuclear antibodies

ANS: D

- 14. Distinguishing clinical features of systemic lupus erythematosus include:
 - a. inflammation in multiple organs
 - b. lack of a specific diagnostic blood test
 - c. acute onset, nonprogressive course
 - d. typical skin rash on the chest and back

ANS: A

- 15. Which of the following are the target cells for HIV?
 - a. helper T-lymphocytes (CD4 lymphocytes)
 - b. B-lymphocytes
 - c. natural killer cells
 - d. macrophages

ANS: A

- 16. A diagnosis of HIV positive means that:
 - a. the number of T-lymphocytes in the circulating blood is decreased
 - b. significant opportunistic infection is present in the body
 - c. the individual has AIDS
 - d. the virus and its antibodies are in the blood

ANS: D

- 17. HIV infection impairs:
 - a. humoral immunity
 - b. cell-mediated immunity
 - c. both humoral and cell-mediated immunity
 - d. neither type of immunity

ANS: C

- 18. HIV is transmitted by:
 - a. kissing or coughing into another's face

- b. infected secretions on toilet seats
- c. any contaminated surface and skin
- d. blood, semen, and vaginal secretions from an infected person

ANS: D

- 19. Serious infections frequently occurring in patients with AIDS include:
 - 1. tuberculosis
 - 2. Pneumocystis carinii pneumonia
 - 3. influenza
 - 4. tetanus
 - a. 1, 2
 - b. 1, 4
 - c. 2, 3
 - d. 3, 4

ANS: A

- 20. Which of the following statements does NOT apply to MHC proteins or molecules?
 - a. They are genes on chromosome 6.
 - b. All members of a family have identical MHCs.
 - c. They alert the immune system to virus-infected cells.
 - d. A close match is essential for successful tissue transplants.

ANS: B

- 21. CD4-positive helper T-cells function by:
 - a. direct cytotoxic action
 - b. facilitating all immune system activity
 - c. production of immunoglobulins
 - d. inactivating allergens

ANS: B

- 22. Host-versus-graft disease refers to:
 - a. hyperacute rejection of tissue
 - b. T-cells in grafted tissue attacking host cells
 - c. infection resulting from immunosuppression therapy
 - d. transplant rejection by the recipient's immune system

ANS: D

- 23. Which of the following complications does *NOT* occur frequently in AIDS patients?
 - a. Kaposi's sarcoma
 - b. wasting syndrome
 - c. lymphoma
 - d. polyarthritis

ANS: D

- 24. Which of the following characteristics apply to the agent HIV?
 - 1. It contains 2 strands of DNA.
 - 2. It tends to mutate frequently to form new strains.
 - 3. The incubation period is extremely short.
 - 4. It is inactivated by heat and many disinfectants.
 - a. 1, 2
 - b. 1, 3
 - c. 2, 4
 - d. 3, 4

ANS: C

- 25. In cases of HIV infection, the "window period" refers to the time between:
 - a. entry of the virus into the blood and the initial manifestations
 - b. entry of the virus into the body and the appearance of antibodies in the blood
 - c. entry of the virus into the body and a significant drop in CD4 T-helper lymphocyte count
 - d. diagnosis of "HIV positive" and diagnosis of "AIDS"

ANS: B

- 26. Which of the following is an effect of cytokines? They:
 - a. activate and stimulate proliferation of B and T lymphocytes
 - b. destroy antigens quickly
 - c. increase the rate of mitosis in tumors
 - d. cause immediate pain

ANS: A

- 27. What does *seroconversion* mean in relation to HIV and AIDS?
 - a. The virus has been identified in the blood and body fluids.
 - b. Antibodies for HIV have been identified in the blood.
 - c. HIV was found in lymphocytes.
 - d. Active infection has developed in the patient.

ANS: B

- 28. Which of the following statements is TRUE regarding a patient who is HIV positive?
 - a. No medication is required until T4 cell count drops below normal range.
 - b. Antibodies are present, destroying the virus and preventing transmission to others.
 - c. Antibodies in the blood indicate presence of virus and possible transmission to others.
 - d. Enzymes have not yet converted RNA to DNA for replication.

ANS: C

- 29. The term *tolerance* refers to:
 - a. surveillance and destruction of new cancer cells by the immune system
 - b. the ability of the immune system to ignore "self" cells

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- c. the ability of T- and B-lymphocytes to work together
- d. the role of lymphoid tissue in the body defenses

ANS: B

- 30. Which of the following statements apply to the complement system?
 - a. It is activated by IgE.
 - b. It blocks the inflammatory response.
 - c. It consists of proteins in the blood that must be activated.
 - d. It may destroy antibodies in the circulation.

ANS: C

- 31. Which of the following statements regarding immunoglobulins is TRUE?
 - a. They consist of a unique sequence of amino acids.
 - b. They are produced in the red bone marrow.
 - c. They are attached to mucosal membranes at entry points into the body.
 - d. IgA binds to allergens.

ANS: A

- 32. Which of the following is NOT a cause of immunodeficiency?
 - a. hypoplasia of the thymus
 - b. delayed hypersensitivity
 - c. immunosuppressive drugs
 - d. atrophy of the lymph nodes

ANS: B

- 33. Which statement is TRUE regarding infants born to HIV infected mothers?
 - a. Infants usually test negative for HIV after birth.
 - b. There is little risk of infected mothers passing the virus to their infants during delivery.
 - c. Breast milk does not contain HIV or antibodies.
 - d. Infants test positive for HIV due to presence of maternal antibodies.

ANS: D

- 34. The most common cause of death in AIDS patients is:
 - a. HIV encephalopathy
 - b. tuberculosis
 - c. Pneumocystis carinii pneumonia
 - d. Candida infection

ANS: C